## UNITED STATES DEPARTMENT OF AGRICULTURE FOREST SERVICE

REGION 6 OKANOGAN - WENATCHEE NATIONAL FORESTS



Wenatchee River Ranger District

CONSTRUCTION DRAWINGS FOR

# Low Pole Stew Reoffer

## INDEX TO SHEETS

SHEET NO.	: DESCRIPTION
1	TITLE
2	VICINITY MAP
3	ESTIMATE OF QUANTITIES
4	NOTES, SYMBOLS & TYPICAL DETAILS
5	ROAD STRUCTURE DETAILS
6	CLEARING DETAILS
7	DRAIN DIP DETAILS
8	WORK DESCRIPTIONS

KEY MAP OF WASHINGTON SHOWING LOCATION OF PROJECT

ROAD NO.	LENGTH MILES	RECONST./CONST.	SHEET NO.
6300131	0.51	RECONST	8
6300140	0.27	RECONST	8
6305311	0.53	RECONST	8
6305315	0.05	RECONST	8
6305331	0.63	RECONST	8

TOTAL CONSTRUCTION TOTAL RECONSTRUCTION

MILES

MILES 1.99

U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE

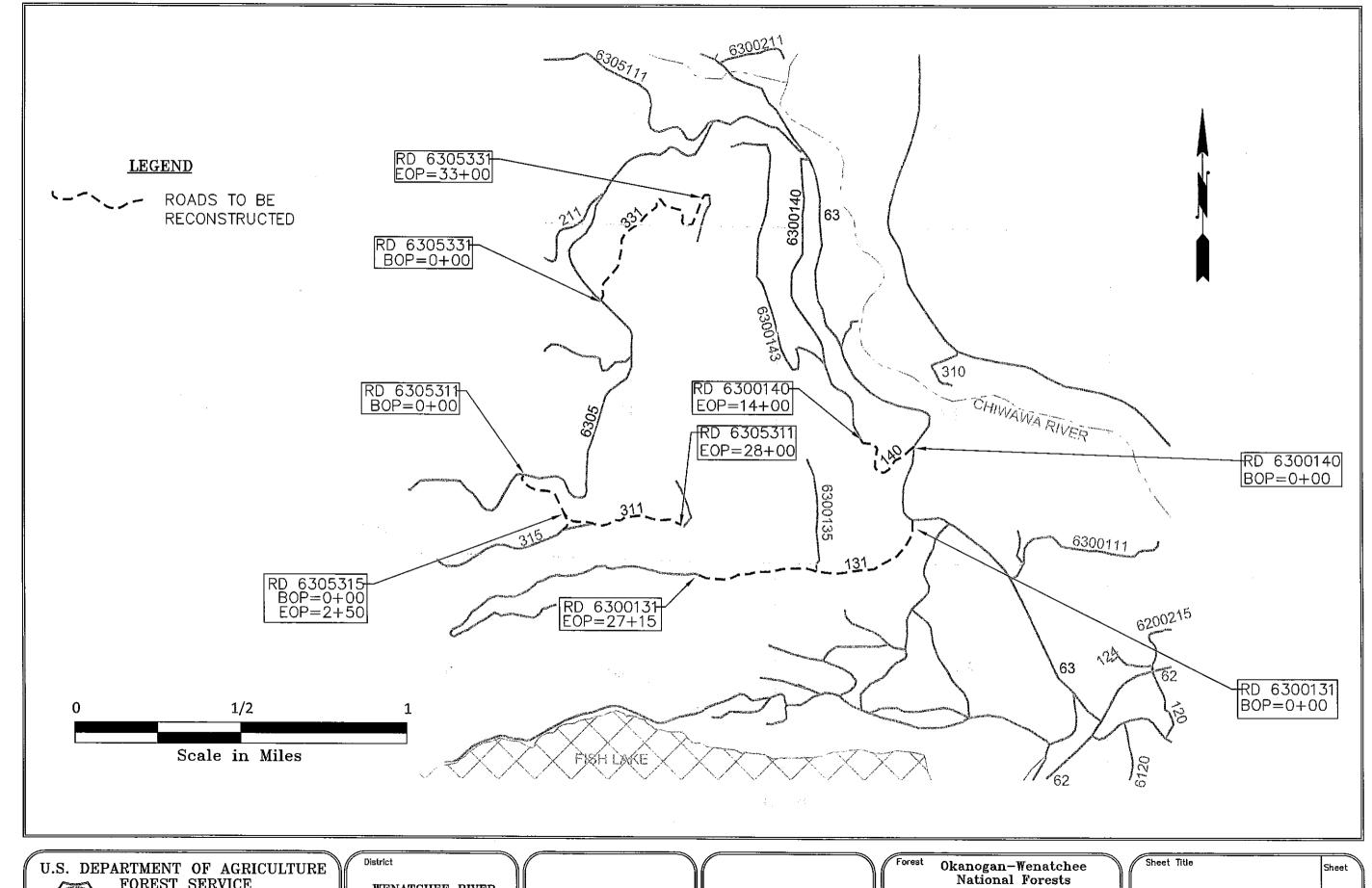
PACIFIC NORTHWEST REGION

reviewed and Approved by	
District Ranger	Date
Forest Engineer	Date

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Zone Engineer		<del></del>	Date
Recommended	ana Approvea	ву	

Designed By	Date
Reviewed By	Date

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U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE R-6PACIFIC NORTHWEST REGION

WENATCHEE RIVER RANGER DISTRICT

Project

Low Pole Stew Reoffer

Vicinity Map

2

## **ESTIMATE OF QUANTITIES** Sheet 3 LOW POLE STEW REOFFER ROAD NUMBER | 6300131 | 6300140 | 6305311 | 6305315 | 6305331 MILE POST (MILES) 0.51 0.27 0.53 0.05 0.63 ITEM METHOD OF REVISION **DESCRIPTION** MEASURE UNIT QUANTITIES NO. DATE REMARKS Lump 15101 Mobilization AQ Sum 2013 1.00 1.00 1.00 15101 - MOBILIZATON FOR 6305311 & 6305315 WILL BE PAID FOR UNDER 6305331 Clearing and grubbing, disposal of tops and limbs f, logs f, stumps 20103 CQ 0.25 Acre 2013 0.58 1.16 0.10 1.65 30318 Road reconditioning, roadbed, compaction method (a) CQ Mile 2013 0.51 0.27 0.53 0.05 0.63

## Notes, Symbols & Typical Details

DISPOSAL OF MERCHANTABLE TIMBER (TIMBER MEETING UTILIZATION STANDARDS):

Merchantable timber (timber Meeting Utilization Standards) shall be decked in locations shown on drawings, within reach of standard loading equipment.

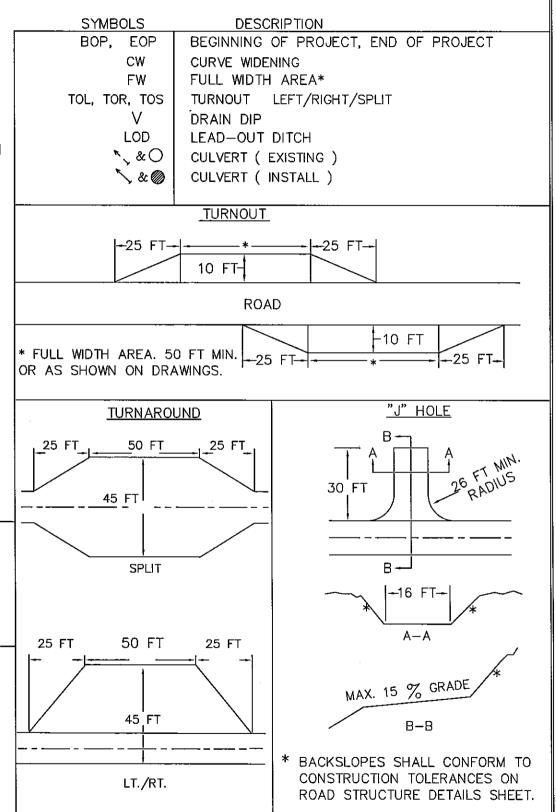
To meet minimum tree specifications, trees must be equal or exceed 7—inches DBH and contain at least one minimum piece. Such timber shall be felled and bucked into log lengths not exceeding 52 ft. Pieces (logs) shall also be considered as meeting Utilization Standards, and be required to be decked, when such pieces would have met Utilization Standards if bucking lengths were varied to include such material. Merchantable timber shall be limbed and bucked. Log decks shall be free of slash and debris. Material not meeting Utilization Standards, including any material remaining after deck removal, shall be disposed of as other construction slash pursuant to Specification 201.04.

#### MINIMUM UTILIZATION STANDARDS:

SEE AT.2- Volume Estimate and Utilization Standards.

DISPOSAL OF UNMERCHANTABLE TIMBER: Logs not meeting Utilization Standards which are suitable for use as firewood, may be scattered and decked. Material not suitable for firewood shall be treated by other slash methods.

STAKES: All stakes shall have the following minimum nominal dimensions. Hubs shall be 2 in. X 2 in. X 8 in. Guard, reference, slope, and other stakes shall be 0.3 in. X 1.5 in. X 18 in. Lath shall be 0.4 in. X 1.5 in. X 3 ft. Other dimensions and materials may be used, such as steel reinforcing bars and metal pins, if approved by the Engineer. The color of paint or flagging, as well as the colors for use on stakes for clearing, reference. structures, and slope staking shall be fluorescent orange. Other colors may be used if approved in writing by the Engineer.



U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE

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PACIFIC NORTHWEST REGION

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WENATCHEE RIVER RANGER DISTRICT

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Okanogan-Wenatchee National Forests

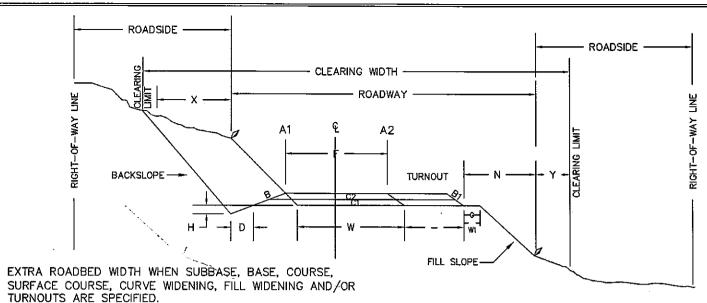
Low Pole Stew Reoffer

Notes, Symbols &

Typical Details

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Sheet



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~	<b> </b>	-		CLE	AR	ING				RADING			PA\	/EME	N.	ΓS	TRU	СТИ	RE
ROAD	SEGMENT	STATION	Ċ	BEYOND SLOPE STAKE	HEVER REATE feet MINI BEY SHOU	MUM OND ILDEF	CONSTRUCTION TOLERANCE	FINISH ROADBED	FEET	S WIDENING FEET	HOLLING	FEET	TRAVELED WAY WIDTH FEET			COMPACTED	INCHES	SLOPE	KAIIO
		fee	t		<u>A1</u>	A2		Ē	W		D	Н	F	C1 (	22	C1	C2	В	B1
6300 131		0+00	27+15		5	1	SP	6d	14		3	1							
6300 140		0+00	14+00		5	1	SP	6d	14							-			
6305 311		0+00	28+00		5	1	SP	6d	14										
6305 315		0+00	2+50		5	1	SP	6d	14										
6305 331		0+00	33+00		5	1	SP	6d	14			•							
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## Road Structure Details

- (1) CURVE WIDENING, WHEN SPECIFIED, SHALL BE ADDED TO THE INSIDE OF THE CURVE.
- (2) ROADBED WIDTH, FILL WIDENING, TURNOUT LENGTHS, FILL AND BACKSLOPE RATION SHALL BE AS SPECIFIED IN CONSTRUCTION STAKING NOTES AND/OR DRAWINGS.
- (3) SEEDING, FERTILIZING AND/OR MULCHING AREA INCLUDES N, X & Y SHOWN ON THE TYPICALS AND ALL OTHER AREAS DISTURBED BY CONSTRUCTION (INCLUDES BURN BAYS AND DECKING AREAS).
- (4) TURNOUTS, TURNAROUNDS AND CURVE WIDENING SHALL BE SURFACED TO THE SAME DEPTH AS THE TRAVELED WAY AND TO THE DIMENSIONS SPECIFIED IN CONSTRUCTION STAKING NOTES AND/OR DRAWINGS.
- (5) ROADBED TEMPLATE TYPES ARE SHOWN ON THE DRAWINGS AND SHALL BE CONSTRUCTED TO THE FOLLOWING TOLERANCE:

OUTSLOPE (OUT): 0 TO 5 % INSLOPE (IN): 2 TO 5 % CROWN (CR): 2 TO 4 %

(6) FINISHING ROADBED:

- d. ROCKS PROTRUDING MORE THAN 4 INCHES ABOVE THE SUBGRADE SHALL BE REDUCED TO THE FINISHED SUBGRADE OR REMOVED. NO OVERSIZE MATERIAL SHALL BE LEFT ON THE SHOULDERS OR IN THE DITCHES. OVERSIZE MATERIAL IS DEFINED AS ROCKS 2 INCHES OR GREATER IN DIMENSION.
- (7) DITCHES ARE TO BE CONSTRUCTED/RECONSTRUCTED WHERE NOTED ON THE WORK DESCRIPTION SHEETS OR PLAN AND PROFILE SHEETS.

(SP) CONSTRUCTION TOLERANCE: WHERE CONSTRUCTION STAKES ARE NOT SPECIFIED AND CLEARING LIMIT MARKING IS THE ONLY CONTROL REQUIRED, THE FOLLOWING SHALL GOVERN, UNLESS OTHERWISE SHOWN ON THE DRAWINGS. GRUB STUMPS WITHIN THE ROADWAY AND IN ACCORDANCE WITH FP-O3 SPEC. 201.05

ROADBED WIDTH: as shown in column "W", plus curve widening, turnout widths, and fill widening.

CENTERLINE ALIGNMENT — 50 FOOT MINIMUM RADIUS CURVE.

GRADE — CHANGE BETWEEN GRADES SHALL BE UNIFORM AND

NOT EXCEED 10 PERCENT IN 25 FEET.

MAXIMUM GRADE: - 10 PERCENT FAVORABLE - 15 PERCENT ADVERSE

FILL — NATURAL CATCH OBTAINED USING SIDE CAST CONSTRUCTION METHOD.

BACKSLOPE - COMMON 2 H:1 V, ON FLAT GROUND, CUTS UNDER 3 FEET

COMMON 1 H : 1 V, UNDER 55% TO 3/4 H : 1 V, OVER 55%

RIPPABLE 1/2 H : 1 V

SOLID 1/4 H : 1 V

U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE

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Project

Low Pole Stew Reoffer

Sheet Title

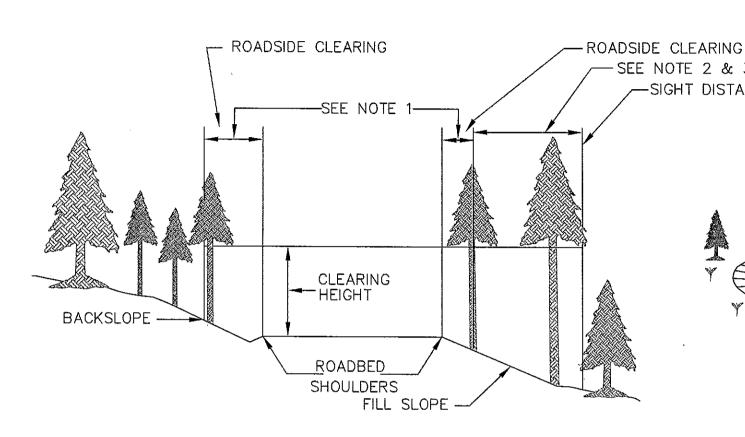
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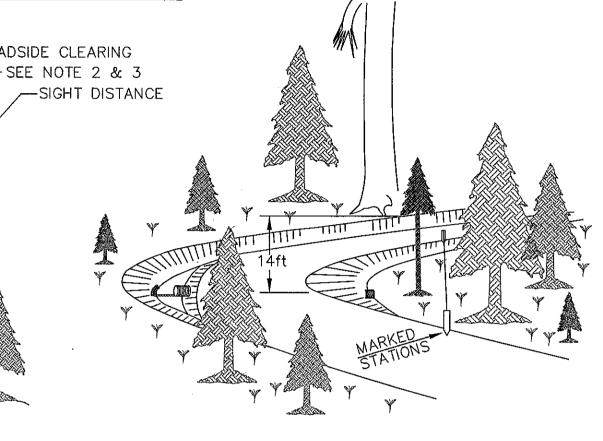
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Road Structure Details

1.6

CLEARING DETAILS





# CLEARING LIMITS TYPICAL NO SCALE

SIGHT DISTANCE TYPICAL NO SCALE

**NOTES** 

- 1. ALL CONIFERS, HARDWOODS AND BRUSH WITHIN 1 FOOT OF THE OUTSIDE SHOULDER OF THE ROAD AND 5 FEET FROM THE BOTTOM OF THE DITCH OR INSIDE SHOULDER SHALL BE REMOVED.
- 2. THE AREA OF SIGHT DISTANCE CLEARING WILL BE FROM THE ROADSIDE CLEARING LIMIT, TO A LINE OF SIGHT BETWEEN THE BEGINNING AND ENDING STATIONS MARKED ON THE GROUND. CONIFERS WITHIN THIS AREA SHALL BE THINNED TO APPROXIMATELY A 12 FEET TRUNK SPACING, EXCEPT WHERE MARKED WITH PAINT OR FLAGGING FOR REMOVAL TO AN ALTERNATE SPACING. ALL HARDWOODS & BRUSH WITHIN THESE LIMITS SHALL BE REMOVED.

3. BRANCHES ON REMAINING CONIFERS SHALL BE TRIMMED FROM GROUND LEVEL TO A CLEARING HEIGHT LIMIT 14 FEET ABOVE THE ROADBED OR TO A LIMIT OF 60% OF THE TREE'S HEIGHT, WHICHEVER IS LESS. LIMBS OF VEGETATION SHALL BE CUT SO AS TO NOT PROTRUDE WITHIN THE CLEARING LIMITS.

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Sheet

Clearing Details

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## Low Pole Stew Reoffer

## **CONSTRUCTION OF SPECIFIED ROADS**

## **Table of Contents**

Schedule of Items	5	pages
Specification List	2	pages
Special Project Specifications	27	pages
Drawings (under separate cover)	8	pages

(Timber Sale)

Timber Sale	Low Pole Stew Reoffer	Road No	6300131
Road Name		Length (Miles)	0.51

Item Numbe		Method of			5	S.R.C Unit		
	Description	Meas.	s. Unit Quantity Price		ly Price		Total	
15101								
	Mobilization	AQ	Lump Sum	1.00	\$	978.02	\$	978.02
20103	Clearing and grubbing, disposal of tops and limbs f							
	logs f, stumps f	CQ	Acre	0.25	\$	1,601.63	\$	400.41
30318	Road reconditioning, roadbed, compaction method			-				
	(a)	CQ	Mile	0.51	\$	3,156.51	\$	1,609.82

SUB-TOTAL: \$

2,988.25

TOTAL ALL ROADS: \$ 12,732.74

(Timber Sale)

Timber Sale	Low Pole Stew Reoffer	Road No.	6300140
Road Name	N/A	Length (Miles)	0.27

Item Number		Method of			S	R.C Unit		
	Description	Meas. Unit Quantity Price		Total				
15101								
	Mobilization	AQ	Lump Sum	1.00	\$	593.68	\$	593.68
20103	Clearing and grubbing, disposal of tops and limbs f			•				
	logs f, stumps f	CQ	Acre	0.58	\$	1,115.85	\$	647.19
30318	Road reconditioning, roadbed, compaction method			-				
	(a)	CQ	Mile	0.27	\$	1,349.48	\$	364.36

SUB-TOTAL: \$ 1,605.23

TOTAL ALL ROADS: \$ 12,732.74

(Timber Sale)

Timber Sale	Low Pole Stew Reoffer	Road No.	6305311
Road Name	N/A	Length (Miles)	0.53

Item Number		Method of			S.R.C Unit	
	Description	Meas.	Unit	Quantity	Price	Total
20103	Clearing and grubbing, disposal of tops and limbs f					
	logs f, stumps f	CQ	Acre	1.16	\$ 1,601.63	\$ 1,857.89
30318	Road reconditioning, roadbed, compaction method					
	(a)	CQ	Mile	0.53	\$ 1,349.48	\$ 715.22

SUB-TOTAL: \$

2,573.11

TOTAL ALL ROADS: \$

12,732.74

(Timber Sale)

Timber Sale	Low Pole Stew Reoffer	Road No	6305315
Road Name	N/A	Length (Miles)	0.05

Item Number		Method of			S.R.C Unit	
	Description	Meas.	Unit	Quantity	Price	Total
20103	Clearing and grubbing, disposal of tops and limbs f					
	logs f, stumps f	CQ	Acre	0.10	\$ 1,601.63	\$ 160.16
30318	Road reconditioning, roadbed, compaction method				-	
	(a)	CQ	Mile	0.05	\$ 1,173.11	\$ 58.66

SUB-TOTAL: \$ 218.82

**TOTAL ALL ROADS:** \$ 12,732.74

(Timber Sale)

Timber Sale	Low Pole Stew Reoffer	Road No.	6305331
Road Name	N/A	Length (Miles)	0.63

Item Number		Method of			S	S.R.C Unit	
	Description	Meas.	Unit	Quantity		Price	Total
15101			1				
	Mobilization	AQ	Lump Sum	1.00	\$	1,852.50	\$ 1,852.50
20103	Clearing and grubbing, disposal of tops and limbs f						
	logs f, stumps f	CQ	Acre	1.65	\$	1,601.63	\$ 2,642.69
30318	Road reconditioning, roadbed, compaction method			_			
	(a)	CQ	Mile	0.63	\$	1,352.61	\$ 852.14

SUB-TOTAL: \$ 5,347.33

TOTAL ALL ROADS: \$ 12,732.74

## SPECIFICATION LIST

ROAD NUMBER					IUMBER		
LOW POLE STEW REOFFER		6300	6300	6305	6305	6305	
SECTION & TITLE	REV DATE	131	140	311	315	331	
101 - Terms, Format, and Definitions	2013	Х	X	Х	Х	X	
101 00 FLH FP-03 Corrections	7/25/2005	Х	Х	. Х	Х	X	
101 01 Meaning of Terms	1/22/2009	Х	Х	Х	Х	Х	
101 01 Meaning of Terms	1/22/2009	Х	Х	Х	Х	Х	
101 03 Abbreviations and Symbols	6/16/2006	Х	Х	Х	Х	Х	
101 04 Definitions	11/6/2007	Х	Х	X	Х	X	
101 04 Symbols	3/29/2007	Х	Х	Х	X	Х	
102 - Bid, Award, And Execution of Contract	2013	Х	Х	Х	Х	Х	
102 00 Delete 102 in its entirety	2/16/2005	Х	X	Х	Х	Χ	
103 - Scope of Work	2013	Х	X	X.	Х	Х	
103 00 Intent of Contract	2/16/2005	Χ	Х	Χ	Х	.X	
104 - Control of Work	2013	: X	Х	Х	Х	Х	
104 00 Deletions to 104	6/16/2006		Х	Х	Х	X	
104 03 Specifications and Drawings.	1/22/2009		Х	Х	Х	Х	
104 03 Specifications and Drawings	2/22/2005		Х	Х	Х	Х	
104 06 Use of Roads by Contractor	2/17/2005	Х	X	Х	Х	Х	
104 07 Other Contracts	2/17/2005		Х	Х	X	Х	
105 - Control of Material	2013	Х	Х	Х	Х	Χ	
105 02 Material Sources	1/18/2007	X	Х	Х	Х	X	
Contractor provided material							
105 02 sources	3/8/2007	Х-	Х	Х	X	Х	
				:			
105 05 Use of Material Found in the Work	5/12/2004	Х	Х	Х	Х	X	
106 - Acceptance of Work	2013	Х	Х	Х	Х	Х	
Conformity with Contract					1		
106 01 Requirements	7/31/2007	Х	Х	Х	Х	Х	
106 07 Partial and Final Acceptance	5/11/2004	Х	Х	Х	Х	Х	
107 - Legal Relations and Responsibility to the							
Public	2013	, х.	х	X	X	X	
107 05 Responsibility for Damage Claims	5/11/2004	Х	Х	х	Х	x	
					1		
107 06 Contractor Responsibility for Work	6/16/2006	Х	х	Х	X	x	
107 08 Sanitation, Health & Safety	3/29/2005		Х	Х	Х	Х	
					<u> </u>		
107 09 Legal Relationship of the Parties	6/16/2006	X	х	х	X	x	
107 10 Environmental Protection	6/16/2006	+	Х	X <sup>*</sup>	Х	Х	
Protection of Forests, Parks, and							
107 11 Public Lands	2/17/2005	х	х	Х	x	x	
108 - Prosecution and Progress	2013	<del>                                     </del>	Х	Х	Х	X	
108 00 Delete Section 108 in entirety	2/16/2005	A CALL TO A	Х	Х	X	х	
109 - Measurement and Payment	2013		Х	Х	X	Х	
109 00 Deletions	2/17/2005		Х	Х	Х	х	
Measurement Terms and	<u> </u>	- 1				-	
109 02 Definitions	6/16/2006	X	х	х	l x	x	
151 - Mobilization	2013		X	1	X		
151 03 Payment	8/5/2005		X	1	X		
155 - Schedules for Construction Contracts	2013		X	Х	X	х	
Contractor Quality Control Plan,	<del> </del>	1	<u> </u>	<del>                                     </del>	†		
155 00 Records	5/11/2004	х	х	x	Х	x	
201 - Clearing and Grubbing	2013	1	X	X	X	x	

## SPECIFICATION LIST

	-			ROAD N	IUMBER		
LOW POLE STEW REOFFER		6300	6300	6305	6305	6305	
SECTION & TITLE	REV DATE	131	140	311	315	331	
201 00 Deletions	8/5/2009	X	X	Х	Х	X	
201 01 Description	2/18/2005	Х	Х	X	Х	X	
201 04 Clearing	2/22/2005	Х	Х	Х	Х	Х	
201 06 Disposal	2/18/2005	Х	Х	Х	Х	Χ	
201 06 Disposal	11/9/2005	Х	X	Χ	Х	Х	
303 - Road Reconditioning	2013	Χ	Х	Х	Х	Х	
303 00 Complete Specification	5/11/2007	Χ	Х	Х	Х	Х	
Aggregate & Asphalt Surface				2"			**-
303 06 Reconditioning	8/5/2008	X	Х	X	Х	l x	
303 11 Measurement	3/29/2005	Χ	Х	Х	Х	Х	
718 - Traffic Signing and Marking Material	2013	Х	Х	Х	Х	Х	
718 05 Aluminum Panels	8/5/2009	Х	X	Х	Х	Х	

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## Preface

Preface\_wo\_03\_15\_2004\_m

Delete all but the first paragraph and add the following:

The Forest Service, US Department of Agriculture has adopted FP-03 for construction of National Forest System Roads.

## 101 - Terms, Format, and Definitions

101.00\_nat\_us\_07\_25\_2005

101.01\_nat\_us\_01\_22\_2009

## 101.01 Meaning of Terms

Delete all references to the TAR (Transportation Acquisition Regulations) in the specifications.

101.01\_nat\_us\_01\_22\_2009

## 101.01 Meaning of Terms

Delete all references to the FAR (Federal Acquisition Regulations) in the specifications.

101.03\_nat\_us\_06\_16\_2006

#### 101.03 Abbreviations.

## Add the following to (a) Acronyms:

AFPA	American Forest and Paper Association
MSHA	Mine Safety and Health Administration
NIST	National Institute of Standards and Technology
NESC	National Electrical Safety Code
WCLIB	West Coast Lumber Inspection Bureau

## Add the following to (b) SI symbols:

mp	Milepost
ppm	Part Per Million

101.04\_nat\_us\_03\_29\_2007

## 101.04 Definitions.

Delete the following definitions and substitute the following:

Bid Schedule-The Schedule of Items.

Bridge--No definition.

**Contractor**--The individual or legal entity contracting with the Government for performance of prescribed work. In a timber sale contract, the contractor is the "purchaser".

Culvert--No definition.

**Right-of-Way-**-A general term denoting (1) the privilege to pass over land in some particular line (including easement, lease, permit, or license to occupy, use, or traverse public or private lands), or (2) Real property necessary for the project, including roadway, buffer areas, access, and drainage areas.

## Add the following:

**Adjustment in Contract Price**--"Equitable adjustment," as used in the Federal Acquisition Regulations, or "construction cost adjustment," as used in the Timber Sale Contract, as applicable.

**Change**--"Change" means "change order" as used in the Federal Acquisition Regulations, or "design change" as used in the Timber Sale Contract.

**Design Quantity**—"Design quantity" is a Forest Service method of measurement from the FS-96 Forest Service Specifications for the Construction of Roads and Bridges. Under these FP specifications this term is replaced by the term "Contract Quantities".

**Forest Service**--The United States of America, acting through the Forest Service, U.S. Department of Agriculture.

Neat Line--A line defining the proposed or specified limits of an excavation or structure.

Pioneer Road--Temporary construction access built along the route of the project.

**Purchaser**—The individual, partnership, joint venture, or corporation contracting with the Government under the terms of a Timber Sale Contract and acting independently or through agents, employees, or subcontractors.

**Protected Streamcourse**--A drainage shown on the plans or timber sale area map that requires designated mitigation measures.

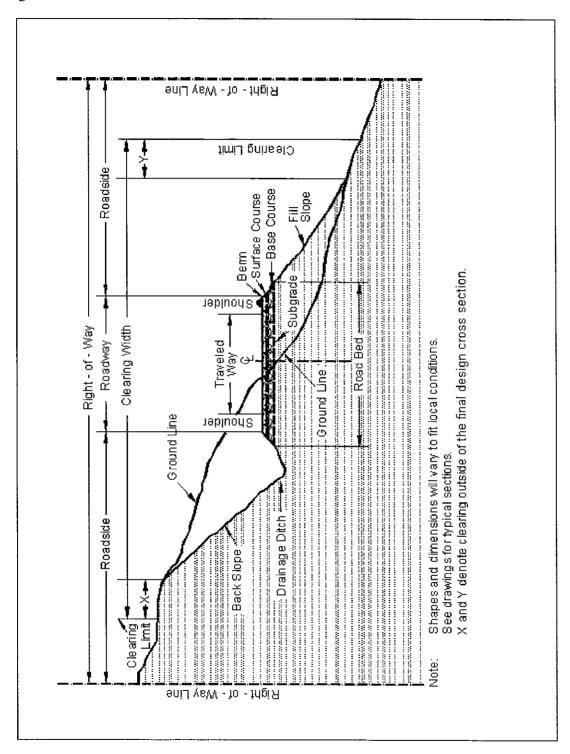
**Road Order**--An order affecting and controlling traffic on roads under Forest Service jurisdiction. Road Orders are issued by a designated Forest Officer under the authorities of 36 CFR, part 260.

**Schedule of Items**--A schedule in the contract that contains a listing and description of construction items, quantities, units of measure, unit price, and amount.

**Utilization Standards**--The minimum size and percent soundness of trees described in the specifications to determine merchantable timber.

Add Figure 101-1—Illustration of road structure terms:

Figure 101-1—Illustration of road structure terms.



101.04\_nat\_us\_11\_06\_2007

## 101.04 Definitions.

Delete the following definitions:
Contract Modification
Day
Notice to Proceed
Solicitation
102 - Bid, Award, and Execution of Contract
102.00_nat_us_02_16_200
102 Bid, Award, and Execution of Contract
Delete Section 102 in its entirety.
103 - Scope of Work
103.00_nat_us_02_16_200
Deletions
Delete all but subsection 103.01 Intent of Contract.

## 104 - Control of Work

104.00\_nat\_us\_06\_16\_2006

#### **Deletions**

Delete Sections 104.01, 104.02, and 104.04.

104.03\_nat\_us\_01\_22\_2009

104.03 Specifications and Drawings.

Delete 104.03.

104.03\_nat\_us\_02\_22\_2005

104.03 Drawings and Specifications

Delete subsection 104.03

104.06\_nat\_us\_02\_17\_2005

## Add the following subsection:

#### 104.06 Use of Roads by Contractor

The Contractor is authorized to use roads under the jurisdiction of the Forest Service for all activities necessary to complete this contract, subject to the limitations and authorizations designated in the Road Order(s) or described in the contract, when such use will not damage the roads or national forest resources, and when traffic can be accommodated safely.

104.07\_nat\_us\_02\_17\_2005

## Add Subsection.

#### 104.07 Other Contracts.

**Example:** The Federal Highway Administration is administering and is intending to award a contract for the reconstruction of 3 1/2 miles of Salmon la Sac Road approximately 5 miles north of this project. Schedule activities to assure no delays or interference to the operations of the Federal Highway Administration contract.

#### 105 - Control of Material

105.02\_nat\_us\_01\_18\_2007

105.02 Material Sources.

## 105.02(a) Government-provided sources.

#### Add the following:

Comply with the requirements of 30 CFR 56, subparts B and H. Use all suitable material for aggregate regardless of size unless otherwise designated. When required, re-establish vegetation in disturbed areas according to section 625.

105.02\_nat\_us\_03\_08\_2007

105.02 Material Sources.

105.02(a) Contractor-provided sources.

## Add the following:

All material (e.g., soil, gravel, sand, borrow, aggregate, etc.) transported onto National Forest System land or incorporated into the work will be weed-free. The Contracting Officer may request written documentation of methods used to determine the weed-free status of any and all materials furnished by the contractor. Contractor-provided expertise and methods to establish weed-free status must be appropriate for the weeds of concern in the local area. The following applies to this contract:

A Forest Service weed specialist will inspect proposed sources to determine weed-free status. Provide the Contracting Officer written notification of proposed material sources 14 days prior to use. Written approval of the specific source will be provided to the contractor. If weed species are present in the proposed source, appropriate mitigation measures may allow conditional use of the source as required by the Contracting Officer.

105.05\_nat\_us\_05\_12 2004

#### 105.05 Use of Material Found in the Work.

Delete 105.05 (a) and (b) and the last sentence of the second paragraph and substitute the following:

Materials produced or processed from Government lands in excess of the quantities required for performance of this contract are the property of the Government. The Government is not obligated to make reimbursement for the cost of producing these materials.

## 106 - Acceptance of Work

106.01\_nat\_us\_07\_31\_2007

## 106.01 Conformity with Contract Requirements.

## Delete Subsection 106.01 and substitute the following:

References to standard test methods of AASHTO, ASTM, GSA, and other recognized standard authorities refer to the methods in effect on the date of solicitation for bids.

Perform all work to the lines, grades, cross-sections, dimensions, and processes or material requirements shown on the plans or specified in the contract.

Incorporate manufactured materials into the work according to the manufacturer's recommendations or to these specifications, whichever is more strict.

Plan dimensions and contract specification values are the values to be strived for and complied with as the design values from which any deviations are allowed. Perform work and provide material that is uniform in character and reasonably close to the prescribed value or within the specified tolerance range. The purpose of a tolerance range is to accommodate occasional minor variations from the median zone that are unavoidable for practical reasons.

When standard manufactured items are specified (such as fence, wire, plates, rolled shapes, pipe conduits, etc., that are identified by gauge, unit mass, section dimensions, etc.), the identification will be considered to be nominal masses or dimensions. Unless specific contract tolerances are noted, established manufacturing tolerances will be accepted.

The Government may inspect, sample, or test all work at any time before final acceptance of the project. When the Government tests work, copies of test reports are furnished to the Contractor upon request. Government tests may or may not be performed at the work site. If Contractor testing and inspection is verified by the Government, the Contractor's results may be used by the Government to evaluate work for acceptance. Do not rely on the availability of Government test results for process control.

Acceptable work conforming to the contract will be paid for at the contract unit bid price. Four methods of determining conformity and accepting work are described in Subsections 106.02 to 106.05 inclusive. The primary method of acceptance is specified in each Section of work. However, work may be rejected at any time it is found by any of the methods not to comply with the contract.

Remove and replace work that does not conform to the contract, or to prevailing industry standards where no specific contract requirements are noted, at no cost to the Government.

- (a) Disputing Government test results. If the accuracy of Government test results is disputed, promptly inform the CO. If the dispute is unresolved after reasonable steps are taken to resolve the dispute, further evaluation may be obtained by written request. Include a narrative describing the dispute and a proposed resolution protocol that addresses the following:
  - (1) Sampling method;
  - (2) Number of samples;
  - (3) Sample transport;
  - (4) Test procedures;
  - (5) Testing laboratories;
  - (6) Reporting;
  - (7) Estimated time and costs; and
  - (8) Validation process.

If the evaluation requires additional sampling or testing be performed, mutually agree with the Government on witnessing procedures and on sampling and testing by a third party laboratory. Use a third party laboratory accredited by the AASHTO accreditation program. Provide proof of the laboratory's accreditation for the test procedures to be used. Do not use the same laboratory that produced the disputed Government test results or that produced the test results used as a basis for the dispute.

The CO will review the proposed resolution protocol and may modify it before final approval and execution.

The Government will use the approved resolution protocol test results to determine the validity of the disputed testing. If the Government test results are validated, the Contractor will be responsible for all costs associated with developing and performing the resolution protocol. If the Government test results are not validated, the Government will be responsible for all costs associated with developing and performing the resolution protocol. If the validity of the Government test results cannot be determined, the Contractor and Government will equally share all costs associated with developing and carrying out the resolution protocol.

- **(b)** Alternatives to removing and replacing non-conforming work. As an alternative to removal and replacement, the Contractor may submit a written request to:
  - (1) Have the work accepted at a reduced price; or
  - (2) Be given permission to perform corrective measures to bring the work into conformity.

The request must contain supporting rationale and documentation. Include references or data justifying the proposal based on an evaluation of test results, effect on service life, value of material or work, quality, aesthetics, and other tangible engineering basis. The CO will determine disposition of the nonconforming work.

106.07\_nat\_us\_05\_11\_2004

106.07 Delete

Delete subsection 106.07.

## 107 - Legal Relations and Responsibility to the Public

107.05\_nat\_us\_05\_11\_2004

107.05 Responsibility for Damage Claims.

Delete the entire subsection.

107.06\_nat\_us\_06\_16\_2006

107.06 Contractor's Responsibility for Work.

Delete the following from the first paragraph.

"except as provided in Subsection 106.07".

107.08\_nat\_us 03 29 2005

107.08 Sanitation, Health, and Safety

Delete the entire subsection.

107.09\_nat\_us\_06\_16\_2006

107.09 Legal Relationship of the Parties.

Delete the entire subsection.

## 107.10 Environmental Protection.

## Add the following:

Design and locate equipment repair shops, stationary refueling sites, or other facilities to minimize the potential and impacts of hazardous material spills on Government land.

Before beginning any work, submit a Hazardous Spill Plan. List actions to be taken in the event of a spill. Incorporate preventive measures to be taken, such as the location of mobile refueling facilities, storage and handling of hazardous materials, and similar information. Immediately notify the CO of all hazardous material spills. Provide a written narrative report form no later than 24 hours after the initial report and include the following:

- Description of the item spilled (including identity, quantity, manifest number, and other identifying information).
- Whether amount spilled is EPA or state reportable, and if so whether it was reported, and to whom.
- Exact time and location of spill including a description of the area involved.
- Containment procedures.
- Summary of any communications the Contractor had with news media, Federal, state and local regulatory agencies and officials, or Forest Service officials.
- Description of clean-up procedures employed or to be employed at the site including final disposition and disposal location of spill residue.

When available provide copies of all spill related clean up and closure documentation and correspondence from regulatory agencies.

The Contractor is solely responsible for all spills or leaks that occur during the performance of this contract. Clean up spills or leaks to the satisfaction of the CO and in a manner that complies with Federal, state, and local laws and regulations.

## 107 - Legal Relations and Responsibility To the Public

107.11\_nat\_us\_02\_17\_2005

#### 107.11 Protection of Forests, Parks, and Public Lands:

#### Add the following:

Add appropriate fire plan and equipment language.

## 108 - Prosecution and Progress

108.00\_nat\_us\_02\_16\_2005

108 Delete.

Delete Section 108 in its entirety.

## 109 - Measurement and Payment

109.00\_nat\_us\_02\_17\_2005

109 Deletions

Delete the following entire subsections:

109.06 Pricing of Adjustments.

109.07 Eliminated Work.

109.08 Progress Payments.

109.09 Final Payment.

109.02\_nat\_us\_06\_16\_2006

109.02 Measurement Terms and Definitions.

(b) Contract quantity.

Add the following:

Contract quantities will be adjusted only when there are errors in the original design of 15% or more.

Change the following:

"(b) Cubic yard" to "(c) Cubic yard".

Add the following definition:

(p) Thousand Board Feet (Mbf). 1,000 board feet based on nominal widths, thickness, and extreme usable length of each piece of lumber or timber actually incorporated in the job. For glued laminated timber, 1,000 board feet based on actual width, thickness, and length of each piece actually incorporated in the job.

## 151 - Mobilization

151.03\_nat\_us\_08\_05\_2005

## **151.03 Payment**

Delete the entire subsection and add the following:

## **151.03 Payment**

Mobilization is considered an indirect cost of this contract and will not be compensated as a separate work item.

## 152 - Construction Survey and Staking

152.00\_nat\_us\_08 05 2005

## Description

## 152.01(c) Material.

## Add the following:

Use required stake dimensions and materials. Pre-paint the top 2 inches of all stakes and lath, or mark them with plastic flagging. Use designated colors for paint or flagging. Mark all stakes with a stake pencil that leaves a legible imprint, or with waterproof ink.

Do not use aerosol spray paints.

Use moisture-resistant paper for survey notes. Keep notes in books with covers that will protect the contents and retain the pages in numerical sequence.

## **Construction Requirements**

#### 152.02 General.

Delete the first two sentences.

#### Add the following:

When indicated on the plans, a preliminary survey line has been established on the ground. The project location line is established by offsets from this preliminary line.

Delete second sentence in second paragraph and replace with the following:

Reestablish missing reference, control lines, or stakes as necessary to control subsequent construction staking operations

## 152.03 Survey and Staking Requirements.

## (b) Roadway cross-sections.

Replace the first two sentences with the following:

Take roadway cross-sections normal to centerline. When the centerline curve radius is less than or equal to 200 feet, take cross-sections at a maximum centerline spacing of 25 feet. When the centerline curve radius is greater that 200 feet take cross-sections at a maximum centerline spacing of 80 feet.

## c) Slope Stakes & References:

Replace section with the following:

Slope stakes and references. When required, locate slope stakes on designated portions of the road. Locate the slope stake catch points and use them to establish clearing limits and slope stake references.

Mark slope stakes with the station, the amount of cut or fill, the horizontal distance to centerline, and the slope ratios.

Place slope reference stakes at least 10 feet outside the clearing limit and mark with the offset distance to the slope stake. Place sight stakes when required.

Prior to clearing and grubbing operations, move the slope stake outside the clearing limit to the slope reference stake. After clearing and grubbing and before excavation, reset the slope stakes in their original position.

Use the designated method to establish the slope stake catchpoint.

- **Method I**—Computed Method. Use the template information shown in the plans or other Government-provided data to calculate the actual location of the catchpoint. The slope stake "catchpoint distance" provided may be used as a trial location to initiate slope staking. Recatch slope stakes on any section that does not match the staking report within the tolerances established in Table 152-2.
- **Method II**—Catchpoint Measurement Method. Determine the location of slope stake catchpoints by measuring the catchpoint distances shown in the plans or other Government-provided data.

## (d) Clearing and grubbing limits.

## Add the following:

Establish clearing limits on each side of the location line by measuring the required horizontal or slope distances shown in the stake notes. Mark the clearing limits with flagging or tags on trees to be left standing, or on lath. Make markings intervisible, and no more than 90 feet apart.

After establishing clearing limits, move the location line stake outside the clearing limits for station identification purposes, and mark it with horizontal distance to location line

#### (e) Centerline reestablishment.

#### Replace with the following:

Reestablish centerline from instrument control points. The maximum spacing between centerline points is 25 feet when the centerline curve radius is less than or equal to 200 feet. When the centerline curve radius is greater than 200 feet, the maximum distance between centerline points is 80 feet.

## (g) Culverts.

#### Replace subsection with the following:

Set culvert reference stakes at all culvert locations. Set a culvert reference stake on the centerline of the culvert 10 feet from each end or beyond the clearing limit, whichever is greater. Record the following on culvert reference stakes:

- (1) Diameter, actual field measured length, and type of culvert.
- (2) The vertical and horizontal distance from the reference stake to the invert at the ends of the culvert.
- (3) Station of actual point where culvert intersects centerline.

When required, stake headwall for culverts by setting a hub with a guard stake on each side of the culvert on line with the face of the headwall. Perform this work after clearing is completed.

## 152.03 (I) Miscellaneous Survey and Staking.

#### Add the following:

- (11) Cattleguards
- (12) Drain Dips
- (13) Erosion Control Measures

## Replace Table 152-1 with the following two tables:

Table 152-1 Tolerances for reestablishing P-line, traverse, and elevations.

Precision Class	Minimum Position Closure	Angular Accuracy (±)	L-Line Tangent Control Points <sup>a</sup> (±)	Vertical Closure <sup>b</sup> (±)	
A (Bridges)	1/10,000	2 sets, direct/reverse  10 second rejection limit	N/A	0.02 ft or 0.02ft/1000ft <sup>c</sup>	
В	1/5,000	2 sets, direct/reverse 20 second rejection limit	0.1 ft	0.02 ft or 0.02ft/1000ft <sup>c</sup>	
С	1/1,000	1 set, direct/reverse 1 minute rejection limit	0.2 ft	0.5ft/1000ft <sup>c</sup>	
D	1/300	Foresight and backsight; 15 minute rejection limit <sup>c</sup>	0.4 ft	1.0ft/1000ft <sup>c</sup>	
Е	1/100	Foresight and backsight; 30 minute rejection limit <sup>c</sup>	0.8 ft	1.0ft/1000ft <sup>c</sup>	

a. Accuracy of offset measurement.

b. Determine vertical closures at intervals not to exceed 2000 ft as measured along centerline.

c. Use greater value.

Table 152-2 Cross section and slope stake tolerances.

	Tolerances				
Item	A	В	C	D	Е
Allowable deviation of cross-section line projection from a true perpendicular to tangents, a true bisector of angle points, or a true radius of curves	(±)2°	(±)3°	(±)3°	(±)5°	(±)5°
Take cross-sections topography measurements so that variations in ground from a straight line connecting the cross-section points will not exceed	0.5 ft	1.0 ft	2.0 ft	2.0 ft	3.0 ft
Horizontal and vertical accuracy for cross-sections, in feet or percentage of horizontal distance measured from traverse line, whichever is greater.	0.1 ft or 0.4%	0.15 ft or 0.6%	0.2 ft or 1.0%	0.2 ft or 1.0%	0.3 ft or 1.0%
Horizontal and vertical accuracy for slope stake, slope stake references, and clearing limits. In feet or percentage of horizontal distance measured from centerline or reference stake, whichever is greater.					
Slope reference stakes and slope stakes.	0.1 ft or 0.4%	0.15 ft or 0.6%	0.2 ft or 1.0%	0.2 ft or 1.0%	0.3 ft or 1.0%
Clearing limits	1.0 ft	1.0 ft	1.0 ft	1.5 ft	2.5 ft

## 155 - Schedules for Construction Contracts

155.00\_nat\_us\_05\_11\_2004

155 Delete.

Delete Section 155 in its entirety.

## 201 - Clearing and Grubbing

201.00\_nat\_us\_08\_05\_2009

201.02 Material:

<u>Delete</u> Tree wound dressing material reference.

**201.03** General.

Delete the last sentence.

201.04 Clearing.

Delete the last sentence of (d).

201.01\_nat\_us\_02\_18\_2005

201.01 Description

Replace with the following

This work consists of clearing and grubbing within clearing limits and other designated areas.

201.04\_nat\_us\_02\_22\_2005

201.04 Clearing. (c)

Delete paragraph (c) and replace with the following:

(c) In areas outside the excavation, embankment, and slope rounding limits, cut stumps to within 12 inches or one-third of the stump diameter of the ground, whichever is higher, measured on the side adjacent to the highest ground. For timber sales, stump heights will meet the requirements of the Timber Sale contract.

## 201.04 Clearing.

## Delete subsection (d) and replace with the following:

(d) Do not cut vegetation less than 3 feet tall and less than 3 inches in diameter, that is within the clearing limits but beyond the roadway and not in a decking area, and that does not interfere with sight distance along the road.

## Add the following:

- (e) Trim branches of remaining trees or shrubs to give a clear height of 14 feet above the roadbed unless otherwise indicated. Trim tree limbs as near flush with the trunk as practicable.
- (f) Remove brush from log decks. Deck logs so that logs are piled parallel to one another; can be removed by standard log loading equipment; will not damage standing trees; will not interfere with drainage, and will not roll. Keep logs in log decks free of brush and soil.

201.06\_nat\_us\_11\_09\_2005

## 201.06 Disposal

Delete the first sentence of this paragraph and substitute the following:

Limb and deck logs that meet utilization standards at locations approved by the CO or otherwise designated. Deck logs according to 201.04 (f).

201.06\_nat\_us\_02\_18\_2005

## 201.06 Disposal.

Delete the first sentence of this subsection and substitute the following:

Dispose of merchantable timber designated for removal according to the provisions of the timber sale contract.

## 303 - Road Reconditioning

303.00\_0605\_us\_05\_11\_2007

Delete Section 303 in its entirety and replace with the following.

## **Description**

**303.01** This work consists of reconditioning ditches, shoulders, roadbeds, parking areas, approach road intersections, cattleguards, asphalt surfaces and aggregate surfaces. Clean and maintain all drainage structures.

#### Material

**303.02** Conform to the following Subsection:

Water 725.01

## **Construction Requirements**

**303.03 Ditch Reconditioning.** Remove all slide material, sediment, vegetation, and other debris from the existing ditches and culvert inlets and outlets. Reshape ditches and culvert inlets and outlets to achieve positive drainage and a uniform ditch width, depth, and grade. Dispose of waste as shown on the plans.

**303.04 Shoulder Reconditioning.** Repair soft and unstable areas according to Subsection 204.07. Remove all slide material, vegetation, and other debris from existing shoulders including shoulders of parking areas, turnouts, and other widened areas. Dispose of waste as shown on the plans.

**303.05** Roadbed Reconditioning Repair soft and unstable areas according to Subsection 204.07. Remove all organic, deleterious material larger than 6 inches from the top 6 inches of subgrade. Dispose of waste as shown on the plans. Scarify and shape the traveled way and shoulders at locations and to the depth and width designated on the plans. Remove surface irregularities and shape to provide a uniform surface.

Dispose of rock larger than 4 inches brought to the surface during scarification in areas designated on the plans.

For portions of roads not requiring scarification, the roadbed may contain rocks larger than 4 inches provided they do not extend above the finished roadbed surface. Reduce in place or

remove rock extending above the finished roadbed surface. Dispose of removed rock in areas designated on the plans.

Compact using the following method as specified:

- (a) Layer Placement Method (Hauling and Spreading Equipment). Place material by end dumping to the minimum depth needed for operation of spreading equipment. Level and smooth each embankment layer before placing the next layers. Operate hauling and spreading equipment uniformly over the full width of each layer. Construct a solid embankment with adequate compaction by working smaller rock and fines in with the larger rocks to fill the voids, and by operating hauling and spreading equipment uniformly over the full width of each layer as the embankment is constructed.
- (b) Layer Placement (Roller Compaction) Method. Place material by end dumping to the minimum depth needed for operation of spreading equipment. Adjust the moisture content of the material to obtain a mass that will not visibly deflect under the load of the hauling and spreading equipment. Operate compaction equipment over the full width of each layer until visible deformation of the layer ceases or, in when a sheepsfoot roller is used, the roller "walks out" of the layer. Make at least three complete passes. . Use rollers that meet the following requirements:
  - (1) Steel wheeled rollers, other than vibratory, capable of exerting a force of not less than 250 pounds per inch of width of the compression roll or rolls.
  - (2) Vibratory steel wheeled rollers equipped with amplitude and frequency controls with a minimum weight of 6 tons, specifically designed to compact the material on which it is used.
  - (3) Pneumatic-tired rollers with smooth tread tires of equal size that will provide a uniform compacting pressure for the full width of the roller and capable of exerting a ground pressure of at least 80 psi.

**303.06 Aggregate Surface Reconditioning.** Repair soft and unstable areas to the full depth of the aggregate surface and according to Subsection 204.07. Scarify to the depth and width shown on the plans, and remove surface irregularities. Reshape, finish, and compact the entire aggregate surface according to Section 301, Section 308, Section 321, or Section 322 as applicable.

**303.07 Roadway Reconditioning.** Perform all the applicable work described in Subsections 303.03 through 303.06.

Maintain the existing cross slope or crown unless otherwise shown on the plans. Establish a blading pattern that will retain the surfacing on the roadbed and provide a through mixing of the materials within the completed surface width.

Blade and shape the subgrade for both surfaced and unsurfaced roads when moisture content is suitable for compaction.

303.08 Pulverizing. Scarify the surface to the designated depth and width. Pulverize all material to a size one and one half times the maximum sized aggregate or to 1½ inches, whichever is greater. Mix, spread, compact, and finish the material according to Section 322.

**303.09** Acceptance. Road reconditioning work will be evaluated under Subsections 106.02 and 106.04.

#### Measurement

**303.10** Measure the Section 303 items listed in the Schedule of Items according to Subsection 109.02 and the following as applicable.

Measure ditch reconditioning and shoulder reconditioning by the mile, by the station or foot horizontally along the centerline of the roadway for each side of the roadway.

Measure roadbed reconditioning, aggregate surface reconditioning, roadway reconditioning, and pulverizing by the mile, by the station, or by the square yard.

#### **Payment**

**303.11** The accepted quantities will be paid at the contract price per unit of measurement for the Section 303 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

303.06\_nat\_us\_08\_05\_2008

303.06 Aggregate Surface Reconditioning.

<u>Delete and replace with the following:</u>
303.06 Asphalt and Aggregate Surface Reconditioning.

Repair soft and unstable areas to the full depth of the aggregate surface and according to Subsection 204.07. Scarify to the depth of the aggregate surface or to a depth of 6 inches, whichever is less, and remove surface irregularities. Reshape, finish, and compact the entire aggregate surface according to Subsection 301.05, Subsection 321.05, or Subsection 322.05 as applicable.

For asphalt surfaces, clean the existing surface of all loose material, dirt, or other deleterious substances by approved methods. Remove and dispose of unsuitable material that shows evidence of distress, excess asphalt material, or settlement in the roadbed. Patch the areas with approved material that conforms to and is compatible with the adjacent pavement structure. Perform the patch work according to Section 301, 404, 430, or other sections as applicable for the layer or courses being repaired. Clean and seal cracks in the existing asphalt surface according to Subsection 414.05. Correct surface irregularities exceeding 6 inches in depth with a specified aggregate. Place and compact the aggregate according to Subsections 301.04 and 301.05. Prelevel other dips, depressions, sags, excessive or nonexistent crown, or other surface irregularities with asphalt concrete according to Section 404. Spread and compact the asphalt concrete in layers parallel to the grade line not to exceed 2 inches in compacted depth.

## **Delete Table 303-1 and replace with the following:**

Table 303-1 Sampling and Testing Requirements

Reporting Time	Before using in work	ē	:	4	Before placing next layer
Split Sample	Yes, when requested	â	đ	ī	I
Point of Sampling	Processed material before incorporating in work	;	3	÷	In-place
Sampling Frequency	1 per each mixture or change in material	3	3	3	1 per 3000 yd²
Test Methods Specifications	AASHTO T 99 (1)	R-1 Marshall	AASHTO T 180 <sup>(1)</sup>	R-1 Marshall	AASHTO T 310 or other approved procedures
Category		[	l		
Characteristic	Moisture-density Method D	Moisture-density Method E	Moisture-density Method F	Moisture-density Method G	In-place density & moisture content
Type of Acceptance (Subsection)	Measured and tested for conformance (106.04)				
Material or Product	Existing Roadway				

(1) Minimum of 5 points per proctor.

303.11\_nat\_us\_03\_29\_2005

## 303.10 Measurement

## Modify the second paragraph as follows:

Measure ditch reconditioning and shoulder reconditioning by the mile, station, or foot horizontally along the centerline of the roadway for each side of the roadway.

## 718 - Traffic Signing and Marking Material

718.05\_nat\_us\_08\_05\_2009

## 718.05 Aluminum Panels

Delete the third paragraph and replace with the following:

Clean, degrease and properly prepare the panels according to methods recommended by the sheeting manufacturer. Conversion coatings will conform to ASTM B-921 or ASTM B-449.